

## ABSTRACT

### GENERATION OF AGITATION NOISE ACCORDING TO A PREDETERMINED HISTOGRAM

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The invention relates to a method and a device for generating agitation noise, and the agitation noise obtained.

A subject of the invention is a method for generating agitation noise  
10 comprising an arbitrary number of points, with predetermined histogram, shaped around at least one frequency comprising:

- the generation of noise by a succession of several sequences  $\{h(kN+n)\}_{1 \leq n \leq N}$  of M.N points (M, N integers  $\geq 1$ ),
- [S2]: the choosing for each sequence of M basic subsequence(s)  
15  $\{h_{lm}(n)\}_{1 \leq n \leq N, m \leq M}$  in a random and independent manner from among at least L basic subsequence(s) of N shaped points (L integer  $\geq 1$ ),
- [S4]: the choosing in a random and independent manner, for each sequence, of the sign.

20 Thus, by not simply repeating the subsequence, the spectrum of the agitation noise obtained has no spectral lines.

A second variant of the invention furthermore comprises [S6]: the choosing in a random and independent manner, for each sequence, of the  
25 direction of temporal reading of each of the chosen basic subsequences.

A third variant of the invention furthermore proposes, for each sequence, [S8]: the interleaving E of the M chosen subsequences.

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[Figure 3]